## In the Claims

Please amend the claims as follows:

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18 19 1. (Currently Amended) A server for a merchant computer system, the server comprising:

a file store configured to store a range of audio/video products in respective product files and client history data;

a dialogue unit operable to invite and receive a client selection from among the products, and to define a degrade level signal dependent upon a client integrity indicator determined from a personal client file containing client history data stored in the file store;

a product reader connected to read the product files from the file store to generate a digital audio/video signal; and

a signal processing unit having an input selectively connectable to receive the digital audio/video signal from the product reader, a processing core operable to apply a defined level of content degradation to the digital audio/video signal creating a degraded digital audio/video signal having a degradation in perceived quality corresponding to the defined degrade level signal of content degradation the dialogue unit, and an output connected to output the degraded digital audio/video signal.

(Canceled)
(Canceled)

1 4. (Currently Amended) A server according to claim 2, for a merchant computer system, the server comprising:

a file store configured to store a range of audio/video
products in respective product files and client history data;

a dialogue unit operable to invite and receive a client selection from among the products, and to define a wherein the degrade level signal is dependent on an authorization response received by the dialogue unit from a remote payment gateway computer system following an authorization request from the dialogue unit including a client i.d., a client payment instrument and a monetary value of the product selected for evaluation;

a product reader connected to read the product files from the file store to generate a digital audio/video signal; and a signal processing unit having an input selectively connectable to receive the digital audio/video signal from the product reader, a processing core operable to apply a defined level of content degradation to the digital audio/video signal creating a degraded digital audio/video signal having a degradation in perceived quality corresponding to the defined degrade level signal of the dialogue unit, and an output connected to output the degraded digital audio/video signal.

- 1 5. (Original) A server according to claim 1, wherein the 2 processing core comprises a digital signal processor.
- 1 6. (Original) A server according to claim 5, the digital signal processor including a delay line structure having an input arranged to receive a bit stream derived from the digital audio/video signal, noise insertion circuitry for manipulating bits of the bit stream to degrade signal quality, and an output arranged to output the manipulated bit stream.
- 7. (Previously Amended) A server according to claim 5, the digital signal processor including:
- a discrete Fourier transform unit operable to apply a

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4 discrete Fourier transform to obtain a frequency domain 5 representation of the digital audio/video signal;

a frequency modulator operable to apply a manipulation process to the frequency domain representation of the digital audio/video signal;

an inverse discrete Fourier transform unit operable to apply an inverse discrete Fourier transform to reconstruct a time domain representation of the digital audio/video signal;

wherein the manipulation process applied by the frequency modulator is such as to effect a degradation of perceived signal quality in the digital audio/video signal reconstructed by the inverse digital Fourier transform unit.

## 8. (Canceled)

- 1 9. (Previously Amended) A server according to claim 7,
- 2 wherein the manipulation process includes one or more of the
- 3 following: frequency band rejections, frequency low pass and
- 4 frequency high pass.
- 1 10. (Previously Amended) A server according to claim 7,
- 2 wherein the manipulation process includes phase inversion over at
- 3 least one range of frequency components.
- 1 11. (Original) A server according to claim 7, wherein the
- 2 manipulation process applied by the frequency modulator is
- 3 applied to digital audio signals and inserts masked sound
- 4 contributions adjacent amplitude peaks of the frequency domain
- 5 representation of the digital audio signal.
- 1 12. (Original) A server according to claim 7, further

- 2 including a mixer operatively arranged before the discrete
- 3 Fourier transform unit.
- 1 13. (Original) A server according to claim 12, wherein a
- 2 frequency modulator is operatively arranged between the mixer and
- 3 the inverse discrete Fourier transform unit, and the manipulation
- 4 process includes band-pass filtering to suppress frequency
- 5 contributions lying outside a selected frequency range.
- 1 14. (Original) A server according to claim 13, wherein the 2 manipulation process inserts masked sound contributions adjacent 3 the mixing frequency.
- 1 15. (Original) A server according to claim 5, the digital 2 signal processor including:
- a frame buffer for holding frames of a digital video
- 4 signal; and
- a frame manipulator operatively arranged to manipulate
- 6 frames in the frame buffer to generate a degraded digital video
- 7 signal.
- 1 16. (Previously Amended) A server according to claim 15,
- 2 wherein the digital signal processor is configured to process
- 3 digital video signals conforming to an MPEG standard including as
- 4 frame types I-frames, P-frames and B-frames, wherein the frame
- 5 manipulator is operable to identify the frame type of frames held
- 6 in the frame buffer, and operable to perform frame manipulation
- 7 according to frame type so as to effect a degradation of perceived
- 8 video signal quality.
- 1 17. (Previously Amended) A server according to claim 15,



2 wherein the digital signal processor is/configured to process

- 3 digital video signals conforming to an MPEG standard including data
- 4 blocks, each comprising a plurality of/pixels, wherein the frame
- 5 manipulator is operable to vary the pixels of the data blocks of at
- 6 least selected ones of the frames so as to effect a degradation of
- 7 perceived video signal quality.
- 1 18. (Previously Amended) A/server according to claim 15,
- 2 wherein the digital signal processor is configured to process
- 3 digital video signals conforming to an MPEG standard including
- 4 motion vectors, wherein the frame manipulator is operable to vary
- the motion vectors of at least selected ones of the frames so as to
  - effect a degradation of perceived video signal quality.
- 1 19. (Previously Amended) A server according to claim 15,
- 2 wherein the digital signal processor is configured to process
- 3 digital video signals conforming to an MPEG standard including
- 4 objects, wherein the frame manipulator is operable to manipulate
- 5 the objects of at least/selected ones of the frames so as to effect
- 6 a degradation of perceived video signal quality.
- 1 20. (Previously Amended) A server according to claim 1,
- 2 wherein the processing core is operable to process a multi-channel
- 3 digital audio signal by switching individual channels within the
- 4 multi-channel signal to apply spatial modification to the digital
- 5 audio signal so as to effect a degradation of perceived digital
- 6 audio signal quality.
- 1 21. (Prev ously Amended) A server according to claim 1,
- 2 wherein the processing core is operable to process a multi-channel
- 3 digital audio signal by inverting the phase of at least one of the



- 4 audio channels so as to effect a degradation of perceived digital
- 5 audio signal quality.
- 1 22. (Previously Amended) A server according to claim 1,
- 2 wherein the processing core is operable to process a multi-channel
- 3 digital audio/video signal by adding together individual ones of
- 4 the channels so as to effect a degradation of perceived digital
- 5 audio/video signal quality.
  - 23. (Previously Amended) A server according to claim 1, wherein the processing core is operable to process a multi-channel digital audio/video signal by removal or attenuation of at least one of the channels so as to effect a degradation of perceived digital audio/video signal quality.
- 1 24. (Previously Amended) A server according to claim 1,
- 2 wherein the digital audio/video signal comprises an n-bit digital
- 3 audio signal and the processing core is operable to convert the n-
- 4 bit digital audio signal into an m-bit digital audio signal where m
- 5 is less than n so as to effect a degradation of perceived digital
- 6 audio signal quality
- 1 25. (Previously Amended) A server according to claim 1,
- 2 wherein the processing core is operable to time modulate the
- 3 digital audio/video signal so as to effect a degradation of
- 4 perceived digital audio signal quality.
- 1 26. (Original) A server according to claim 25, wherein the
- 2 time modulation/is one or more of:
- a speed-up or slow-down the digital audio/video signal;
- a change in the value of data bits in volume, luminance



- or chrominance data contained within the digital audio/video 5
- signal; and 6
- a lengthening of a sampling period of the digital 7
- audio/video signal.
- 27. (Previously Amended) A server according to claim 1, 1
- 2 wherein the processing core comprises:
- 3 a first data converter arranged as an input stage to
  - convert the digital audio/videø signal into an analog audio/video
- 5 signal;

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- an analog processing unit operable to apply a defined level of audio/video degradation to the analog signal creating a degraded analog audio signal having a degradation in perceived quality corresponding to said defined level of content degradation;
- a second data converter arranged as an output stage to
- 11 convert the degraded analog signal into a degraded digital
- audio/video signal for qutput. 12
- 1 28. (Previously Amended) A server according to claim 27,
- wherein the analog processing unit is operable to apply frequency 2
- domain modulation to an analog audio signal so as to effect a 3
- degradation of perceived audio signal quality. 4
- 29. 1 (Original/) A server according to claim 28, wherein the
- frequency domain modulation is one or more of: band-reject
- filtering, low-pass filtering, high-pass filtering and frequency-
- selective phase inversion. 4
- (Previously Amended) A server according to claim 1, 30. 1
- 2 wherein the processing core comprises a mixer for adding a
- secondary signal to the digital audio/video signal so as to effect 3



- 4 a degradation of perceived digital audio/video signal quality.
- 1 31. (Original) A server according to claim 30, wherein the
- 2 signal processing unit further comprises a signal generator for
- 3 generating the secondary signal.
- 1 32. (Original) A server according to claim 31, wherein the 2 signal generator is operable as a noise generator.
  - 33. (Original) A server according to claim 31, wherein the signal generator is operable to generate a content-based audio signal.
- 1 34. (Previously Amended) A server according to claim 30, wherein the dialogue unit is operable to generate a degrade level signal, the signal processing unit having a degrade level signal input for receiving a degrade level signal from the dialogue unit and wherein the level of the secondary signal mixed with the digital audio/video signal is determined by the degrade level signal.
- 1 35. (Currently Amended) A method of operating a server of a 2 merchant computer system, the method comprising:
- inviting a client to make a selection from a range of audio/video products/stored by the server in product files;
- receiving a client selection for evaluation of one of the products;
- reading the selected product file to generate a digital audio/video signal;
- 9 <u>defining a level of content degradation dependent on a</u>
  10 <u>client integrity indicator determined from a personal client file</u>

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containing client history data;

applying a the defined level of content degradation to the digital audio/video signal to generate a degraded digital audio/video signal having a degradation in perceived quality corresponding to said defined level of content degradation; and outputting the degraded digital audio/video signal to the

client.

(36.

(Canceled)

37. (Currently Amended) A method according to claim 35, of operating a server of a merchant computer system, the method comprising:

<u>inviting a client to make a selection from a range of</u>
audio/video products stored by the server in product files;

products;

receiving a dient selection for evaluation of one of the
products;

reading the selected product file to generate a digital audio/video signal;

defining a wherein—the level of content degradation applied is dependent on an authorization response received by the server from a remote payment gateway computer system following an authorization request by the server including a client i.d., a client payment instrument and a monetary value of the product selected for evaluation;

applying the defined level of content degradation to the digital audio/video signal to generate a degraded digital audio/video signal having a degradation in perceived quality corresponding to said defined level of content degradation; and outputting the degraded digital audio/video signal to the client.

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- 1 38. (Original) A method according to claim 35, utilizing a
- 2 digital signal processor to apply the defined level of content
- 3 degradation to the digital data stream.
- 1 39. (Currently Amended) A method of communicating between a 2 client, server and gateway on a computer network, the method 3 comprising:
  - a) the client establishing communication with the server to identify the client and a client payment instrument to the server;
  - b) the server transmitting to the client a range of audio/video products for supply in return for payment;
  - c) the client transmitting to the server an evaluation request for one of the products;
  - d) the server and gateway communicating to obtain payment authorization for the requested product from the payment instrument;
  - e) the server defining a level of content degradation as a function of client history;
  - e) <u>f)</u> the server transmitting to the client a degraded evaluation version of the selected product, the degraded evaluation version of the selected product having a degraded perceived quality corresponding to the level of content degradation;
  - f) g) the client transmitting to the server a payment decision;
- 21 g) h) the server and gateway communicating to effect payment 22 capture for the authorized payment; and
- 23 <u>h) i)</u> the server transmitting to the client a non-degraded version of the selected product.

40. (Canceled)

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41. (Currently Amended) The A method of claim 39, communicating between a client, server and gateway on a computer network, the method comprising:

- a) the client establishing communication with the server to identify the client and a client payment instrument to the server;
- b) the server transmitting to the client a range of audio/video products for supply in return for payment;
- c) the client transmitting to the server an evaluation request for one of the products;
- d) the server and gateway communicating to obtain payment authorization for the requested product from the payment instrument;
- e) the server defining a level of content degradation wherein said evaluation version is degraded as a function of said client payment instrument;
- f) the server transmitting to the client a degraded evaluation version of the selected product, the degraded evaluation version of the selected product having a degraded perceived quality corresponding to the level of content degradation;
  - g) the client transmitting to the server a payment decision;
- 21 <u>h) the server and gateway communicating to effect payment</u>
  22 <u>capture for the authorized payment; and</u>
- 23 <u>i) the server transmitting to the client a non-degraded</u>
  24 <u>version of the selected product.</u>
  - 42. (Currently Amended) A server apparatus comprising:
- means for supplying a range of audio/video products as respective digital audio/video signals;
- 4 means for inviting and receiving a client selection from 5 among the products via a network connection; and
- 6 means for defining a level of content degradation as a



function of client history;

means for processing the digital audio/video signal associated with the selected product to apply a the defined level of content degradation thereto; and

means for outputting the degraded digital audio/video signal to the network connection, the degraded digital audio/video signal having a degraded perceived quality corresponding to the defined level of content degradation, whereby a degraded version of the selected product is supplied to the client.

43. (Currently Amended) A merchant computer system comprising a server and a client interconnectable over a network, wherein the server comprises:

a file store configured to store a range of audio/video products in respective product files;

a dialogue unit having a network connection and operable to invite and receive a client selection from among the products via the network connection, and to define a level of content degradation dependent upon a client integrity indicator determined from a personal client file containing client history data stored in the file store;

a product reader connected to read the product files from the file store to generate a digital audio/video signal; and

a signal processing unit having an input connectable to receive the digital audio video signal from the product reader, a processing core operable to apply a defined level of content degradation to the digital audio/video signal creating a degraded digital audio/video signal having a degradation in perceived quality corresponding to said defined level of content degradation of the dialogue unit, and an output connected to output the degraded digital audio/video signal from the processing core to the

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22 network connection.

1 44 (driginal) The system of claim 43, wherein the client

2 comprises an audio/video reproduction system operable to play the

3 audio/video product communicated by way of the digital

audio/video signal.

1 45. (Original) The system of claim 43, the server further

2 including an butput stage operatively arranged between the output

of the signal processing unit and the network connection, the

output stage having a packetizer for sub-dividing the degraded

digital audio/video signal into encrypted data packets and

associating decryption keys with each encrypted data packet, the

7 dialogue unit being operable to supply a packet decoder to the

8 client over the network for decoding the digital video/audio

9 signal, and wherein the client includes an input stage connected

10 to receive the packet decoder and load the packet decoder into a

11 decoder host, the client input stage further comprising an input

12 connected to receive the data packets and supply the data packets

13 to the decoder host for packetwise decoding by applying the

14 packet decoder with the associated decryption key of the data

15 packet concerned, wherein the client input stage is configured to

16 corrupt the decryption key of any given data packet before the

17 decoded data of that packet is transmitted from the input stage

18 in a form playable by the reproduction system.

1 46. (Previously Amended) A method of communicating between a

2 client, server and gateway on a computer network, the method

3 comprising:

4 a) the client establishing communication with the server to

5 identify the client;

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- b) the server transmitting to the client a range of audio/video products for supply in return for payment;
- c) the client transmitting to the server an evaluation request for one of the products;
- d) the server transmitting to the client a degraded evaluation version of the selected product, the degraded evaluation version of the selected product having a degraded perceived quality;
  - e) performing steps b) through d) at least once;
- f) the client transmitting to the server a purchase decision and payment instrument;
- g) the server and gateway communicating to obtain payment authorization for the requested product from the payment instrument;
- 20 h) the server and gateway communicating to effect payment 21 capture for the authorized payment; and
- i) the server transmitting to the client a non-degraded version of the selected product.

1 47. (New) The method of claim 37, further comprising:

prior to said step of the server transmitting to the client a degraded evaluation version of the selected product, defining at the server a level of content degradation as a function of client history; and

said step of the server transmitting to the client a degraded evaluation version of the selected product wherein the degraded evaluation version of the selected product is degraded in perceived signal quality in an amount corresponding to the defined level of content degradation.

1 48. (New) The method of claim 37, further comprising:

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prior to said step of the server transmitting to the client a degraded evaluation version of the selected product

the server transmitting to the client a request for identification of type of payment authorization,

the client transmitting to the server identification of a type of payment authorization,

defining at the server a level of content degradation as a function of the identified type of payment authorization; and

said step of the server transmitting to the client a degraded evaluation version of the selected product wherein the degraded evaluation version of the selected product is degraded in perceived signal quality in an amount corresponding to the defined level of content degradation.